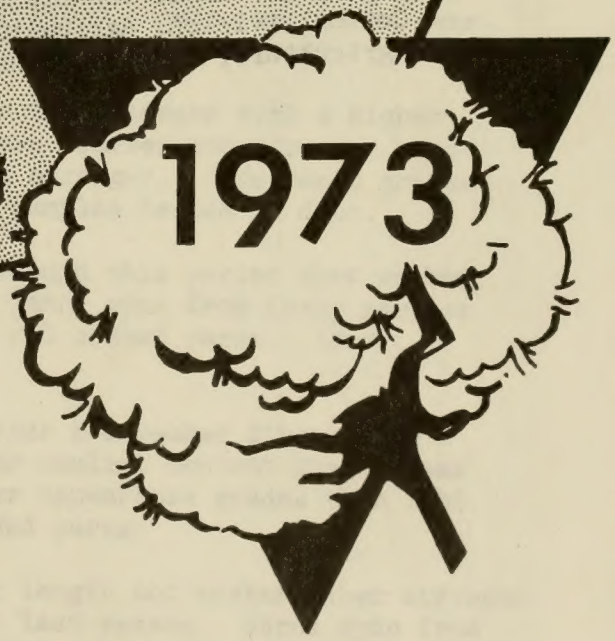
REPORT NO. 8

Cotton Fiber and Processing Test Results

CROP of 1973



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Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38117 December 7, 1973

This is the eighth of a series of reports of fiber and processing test results from the 1973 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as "Summary of Cotton Fiber and Processing Test Results, Crop of 1972", May 1973. These reports are published by the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, Memphis, Tennessee.

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1973

Discussion of Test Results

Cotton Division laboratories of the Agricultural Marketing Service, USDA, report short staple samples tested through November 30, have approximately the same fiber properties as last season at this time. Shirley Analyzer nonlint content and picker and card waste are higher. Yarn appearance grades and imperfections are lower than last season. Average spinning potential yarn number is lower.

Averages for all medium staple samples tested show coarser fibers compared with a year ago. Yarn imperfections are more this season. Average spinning potential yarn number is lower.

Medium staple samples from the Southeast tested to date show coarser fibers. Shirley Analyzer nonlint content is higher. Yarn imperfections are greater than a year ago. Spinning potential is lower than last season.

South Central medium staple samples tested are coarser and weaker than a year ago. Yarns spun from these samples show approximately the same processing test results as a year ago.

Southwest medium staple samples are weaker at zero gage strength. Picker and card waste is less this season. Yarns spun from these samples are weaker. Appearance grades are lower, with more imperfections showing up than a year ago at this time. Average spinning potential yarn number is lower.

Medium staple samples from the West show fiber to be longer with a higher uniformity than last season. Samples tested are coarser and stronger than a year ago. Yarns spun from these samples are stronger. Appearance grades were lower and more imperfections appeared in samples tested to date.

Averages for all long staple samples tested through this period show weaker fiber at zero gage strength than a year ago. Yarns spun from these samples show higher appearance grades for both carded and combed yarns. Yarn imperfections are fewer for carded yarns.

Southeast long staple samples tested show coarser and weaker fibers than a year ago. Shirley Analyzer results show higher nonlint content than a year ago. Yarns spun from these samples show higher appearance grades than last season. Yarn imperfections are fewer for carded yarns.

South Central long staple samples show shorter length and weaker fiber strength than last season. Comber waste is higher than last season. Yarns spun from these samples are weaker, but appearance grades are higher. Yarn imperfections are more than last season. Spinning potential number is lower than a year ago.

Long staple samples tested from the West to date are shorter than last season. Comber waste is less. Yarns spun from these samples are stronger and appearance grades higher than a year ago. Imperfections are fewer this season and spinning potential yarn number is higher.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through November 30, 1973 1/

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results				
		Fibrograph		Mike fineness	Fiber strength		S A nonlint	P & C waste	Yarn quality			Spin. Potent.
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appearance	Imperfections	
	No.	Inches	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Lbs.	Index	No.	Yarn No.
									22s Carded Yarn			
Short Staple:												
Southwest												
1972	22	.98	45	4.5	84	20	3.0	5.9	95	119	22	47
1973	25	.98	46	4.4	85	21	3.4	6.4	95	111	19	43
Medium Staple:												
Southeast												
1972	51	1.08	45	4.3	83	23	2.9	6.1	105	103	16	67
1973	36	1.08	46	4.7	82	22	3.5	6.2	104	107	22	62
South Central												
1972	135	1.09	45	4.4	84	23	2.8	6.1	104	109	18	64
1973	112	1.10	45	4.6	82	22	3.0	5.7	102	110	19	62
Southwest												
1972	29	1.07	46	4.5	84	22	3.0	6.1	103	121	21	63
1973	31	1.08	45	4.4	81	22	2.8	5.6	99	100	25	59
West												
1972	38	1.11	45	4.4	91	25	2.4	5.3	113	121	15	68
1973	34	1.13	47	4.7	95	26	2.2	5.5	119	109	20	68
U.S. Average												
1972	253	1.09	45	4.4	85	23	2.8	6.0	103	111	18	66
1973	213	1.10	46	4.6	84	23	2.9	5.8	105	108	21	63
Significant difference 2/		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through November 30, 1973 1/ (Continued)

Staple group, Area, and Crop year	Lots	Fiber Test Results						Processing Test Results								
		Length		Mike	Strength		SA Non-lint	P&C Waste	Comber Waste	Yarn Quality						SPY
		Span	Unif		Zero gage	1/8" gage				Strength		Appearance		Imprfctns		
										carded	combed	carded	combed	card	comb	
	No.	In.	Pct.	Rdg.	Mpsi	G/tx	Pct.	Pct.	Pct.	Lbs.	Lbs.	Indx	Indx	No.	No.	No.
										22s Carded & Combed Yarn						
Long Staple:																
Southeast																
1972	16	1.12	44	4.4	85	24	3.5	8.3	16.9	107	123	102	116	24	9	69
1973	11	1.12	45	4.6	83	23	4.0	8.6	16.8	105	121	118	127	17	8	68
South Central																
1972	3	1.17	45	4.3	89	24	4.1	8.6	15.6	117	133	103	113	16	8	75
1973	5	1.15	44	4.3	86	24	4.0	8.8	17.2	111	129	116	128	21	9	66
West																
1972	10	1.18	44	3.8	92	26	2.3	7.0	15.4	128	146	91	98	30	15	86
1973	8	1.16	45	3.9	92	27	2.2	7.0	14.7	137	153	104	114	17	9	93
U.S. Average																
1972	29	1.14	44	4.2	88	24	3.2	7.9	16.2	115	132	98	110	25	10	75
1973	24	1.14	45	4.3	86	25	3.4	8.1	16.2	117	133	113	123	18	9	76
			Array									50's Combed Yarn				
								American Pima								
Extra Long Staple:																
West																
1972	8	1.46	32	3.6	99	31	2.3	7.8	18.1		63		109		3	
1973	3	1.46	32	4.0	98	33	2.7	7.1	18.0		65		123		2	
Significant Difference 2/		0.02	2	0.2	2	1	0.5	0.5	0.5	4(22s)	4(22s) 2(50s)	5	5	2	2	3

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten-tial
No	Grade Name & Code	Stple	2.5% span	Unif		Zero Gage	1/8" Gage			Gra	Yel		8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHWEST AREA																					
CENTRAL TEXAS																					
ITASCA							LANKART LX 571						100 PERCENT								
2 SLM LT SP	42	31	0.99	45	4.6	86	21	6.3	2.9	4	3	7.0	278	87	7.1	6.1	130	110	17	14	38
NORTHWEST TEXAS																					
ANSON							LANKART 611						100 PERCENT								
1 SLM	41	30	0.93	46	4.2	81	21	8.4	2.8	2	3	5.4	299	91	8.4	7.2	120	110	24	23	42
BULA							STLCOT 90						80 PERCENT								
1 MID	31	30	0.91	48	4.8	82	21	7.0	2.3	1	3	6.1	283	88	7.5	6.4	130	120	19	15	37
ELDORADO							LANKART 57						85 PERCENT								
1 LM LT SP	52 1/	31	1.02	45	3.7	82	21	7.4	5.1	3	3	8.3	291	92	7.9	6.7	120	100	38	28	46
LENORAH							WESTERN STORMPROOF						95 PERCENT								
2 MID	31	31	0.93	47	4.3	83	20	6.4	1.9	1	3	5.9	291	89	7.8	6.6	130	110	11	8	38
MEADOW							LANKART 57						70 PERCENT								
1 SLM	41	30	0.96	46	4.8	93	22	6.4	2.4	2	3	5.2	297	91	7.7	6.3	130	110	23	13	41
RULE							LANKART LX 571						100 PERCENT								
1 SLM	41	31	0.99	46	4.7	88	21	6.5	2.1	2	3	5.7	291	94	7.4	6.3	130	120	29	19	47
SEAGRAVES							PAYMASTER 202						100 PERCENT								
1 MID	31	29	0.83	45	3.8	88	20	6.0	2.8	1	3	7.1	277	80	7.0	5.4	120	100	14	11	34

1/ Reduced from 42 because of bark

Table 3--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHEAST AREA																					
ALABAMA																					
	CUBA						DIXIE KING II						80 PERCENT								
2	LM	51 34	1.11	45	4.6	75	22	8.1	2.7	3	3	7.3	97	31	6.9	4.7	120	90	13	11	67
	CULLMAN						DIXIE KING II						80 PERCENT								
2	LM	51 33	1.03	46	4.7	80	22	6.8	3.1	3	3	5.9	88	28	6.1	4.5	110	90	13	13	50
	GREENBRIER						STONEVILLE 213						98 PERCENT								
2	SLM	41 33	1.01	47	4.7	79	22	7.3	3.0	1	3	6.9	96	30	6.6	5.0	130	90	20	14	54
	HARPERSVILLE						DELTAPINE 16						90 PERCENT								
2	LM	51 34	1.09	46	4.5	84	23	7.4	3.7	2	2	5.6	108	34	6.5	4.7	100	90	19	16	69
	HUNTSVILLE						STONEVILLE 213						85 PERCENT								
2	LM	51 33	1.05	48	4.9	78	20	7.9	2.7	3	3	5.5	94	28	6.8	4.7	100	90	23	16	57
	PRATTVILLE						COKER 417						100 PERCENT								
2	SLM	41 35	1.11	47	4.0	84	26	6.2	3.0	2	3	7.5	121	42	6.7	5.0	110	90	17	13	71
	SYLACAUGA						STONEVILLE 603						100 PERCENT								
2	LM	51 34	1.06	46	4.2	81	23	7.5	5.0	3	2	7.4	101	30	6.5	4.7	110	80	36	24	59
	TUSKEGEE						DELTAPINE 16						95 PERCENT								
2	SLM	41 34	1.09	46	4.3	82	23	6.8	2.5	1	3	6.4	102	32	6.1	4.5	120	100	10	9	66
GEORGIA																					
	DAWSON						STONEVILLE 213						70 PERCENT								
2	LM	51 33	1.07	46	4.7	85	21	7.1	4.3	3	3	6.4	94	26	6.3	4.3	100	70	20	16	54
	REYNOLDS						COKER 201						100 PERCENT								
2	SLM	41 34	1.09	44	4.5	84	21	6.8	2.8	2	3	5.7 1/	96	29	5.8	4.2	90	70	31	24	53
NORTH CAROLINA																					
	LAURINBURG						MONAIR 511						100 PERCENT								
2	LM	51 35	1.08	47	4.5	82	24	6.9	6.2	3	3	10.1	115	38	6.7	5.1	90	80	34	23	67
SOUTH CAROLINA																					
	CALHOUN FALLS						COKER 201						100 PERCENT								
2	LM	51 34	1.08	45	4.5	81	23	6.5	5.0	3	3	7.5	101	33	6.3	4.4	100	80	22	18	59

1/ Cotton stuck to processing roller

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTH CENTRAL AREA																					
ARKANSAS																					
	FUDORA						DELTAPINE 16						100 PERCENT								
2	SLM	41 34	1.11	46	5.0	81	23	8.1	3.0	2	3	5.4	104	35	7.1	5.0	100	80	13	9	61
	HELENA						DELTAPINE 16						98 PERCENT								
2	SLM	41 35	1.13	46	4.5	77	21	7.9	3.0	2	3	5.5	103	35	6.8	5.2	100	90	17	12	62
	HELENA						STONEVILLE 213						100 PERCENT								
2	SLM	41 35	1.12	47	4.8	82	22	7.4	4.0	2	2	6.4	100	29	6.3	4.4	100	90	19	13	64
	HUGHES						STONEVILLE 213						100 PERCENT								
2	LM	51 34	1.12	47	4.8	76	22	7.0	3.3	3	3	7.0	89	27	6.1	4.2	90	80	20	16	55
	NEWPORT						STONEVILLE 213						95 PERCENT								
2	SLM	41 35	1.11	47	5.0	81	21	6.8	1.9	2	3	5.1	96	28	6.0	4.1	110	80	21	11	56
	PROCTOR						STONEVILLE 213						100 PERCENT								
2	SLM	41 34	1.07	44	4.7	73	21	7.4	3.4	2	3	5.6	83	21	6.2	4.0	90	70	21	19	48
	WALNUT RIDGE						REX SMOOTHLEAF 66						75 PERCENT								
2	MID	31 34	1.09	45	4.5	81	20	6.9	2.2	1	3	4.9 1/	94	27	6.2	4.3	120	90	15	10	59
	WYNNE						DELTAPINE 16						100 PERCENT								
2	SLM	41 34	1.10	45	4.9	85	24	7.4	4.0	2	3	5.8	101	33	6.2	4.8	110	90	17	15	64
LOUISIANA																					
	ALEXANDRIA						STONEVILLE 213						75 PERCENT								
2	SLM	41 34	1.08	44	4.5	75	20	7.1	2.9	3	3	5.3	79	22	5.8	3.9	100	70	40	25	45
	BUNKIE						DELTAPINE 45A						80 PERCENT								
2	LM	51 34	1.07	46	4.3	75	22	7.3	3.5	5	2	6.2	86	27	6.2	4.3	100	70	20	18	54
	LAKE PROVIDENCE						DELTAPINE 16						100 PERCENT								
2	SLM	41 35	1.13	46	4.7	80	23	8.3	3.4	1	2	6.3	111	39	7.2	5.4	120	100	14	8	77
	LAKE PROVIDENCE						STONEVILLE 213						100 PERCENT								
2	SLM	41 34	1.09	46	4.7	82	23	6.8	2.9	2	3	5.8	95	30	6.0	4.6	90	80	17	16	56
	MONROE						DELTAPINE 16						100 PERCENT								
2	SLM	41 35	1.12	45	4.5	78	22	8.0	2.6	3	3	5.1	95	30	6.4	4.9	90	70	47	27	59

1/ Cotton stuck to processing roller

Table 3--Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTH CENTRAL AREA--(Continued)																					
LOUISIANA--(Continued)																					
OAK GROVE							DELTAPINE 16						100 PERCENT								
2	SLM LT SP	42	34	1.11	46	5.1	81	23	7.9	2.4	3	3	6.4	103	34	6.6	4.7	130	100	10	8	64
SHREVEPORT							DELTAPINE 16						100 PERCENT								
2	SLM	41	34	1.13	44	4.7	76	22	8.5	3.2	2	3	5.2	95	29	6.6	4.7	80	70	39	24	57
SICILY ISLAND							STONEVILLE 213						100 PERCENT								
2	LM	51	34	1.08	46	4.6	80	20	7.0	3.8	4	3	6.7	91	25	6.0	4.0	110	80	22	18	58
MISSISSIPPI																					
CLARKSDALE							STONEVILLE 213						100 PERCENT								
2	LM	51	34	1.10	45	4.7	85	21	6.9	5.6	3	3	6.6	96	29	6.4	4.6	100	70	23	16	59
EDWARDS							STONEVILLE 213						85 PERCENT								
2	SLM	41	34	1.07	47	4.9	82	22	6.6	2.5	3	3	6.5	94	30	6.2	4.4	120	90	9	8	58
FOREST							DELTAPINE 16						95 PERCENT								
2	SLM	41	34	1.09	44	4.6	82	21	6.5	2.7	2	2	6.4	97	31	6.5	4.7	120	90	18	6	59
GUNNISON							DELTAPINE 16						100 PERCENT								
2	SLM	41	35	1.12	46	4.5	80	24	7.8	2.3	2	2	6.7	106	35	7.0	5.3	110	80	24	10	72
HOLLY SPRINGS							DELTAPINE 16						90 PERCENT								
2	SLM	41	35	1.10	43	3.5	79	23	8.8	4.1	1	2	7.8	110	36	7.3	5.2	100	90	21	19	67
INDIANOLA							DIXIE KING III						100 PERCENT								
2	LM	51	34	1.09	48	4.7	85	24	6.0	5.0	3	2	6.4	112	37	6.2	4.5	100	90	20	15	67
LAKE CORMORANT							DELTAPINE 16						100 PERCENT								
2	SLM	41	36	1.14	45	4.0	78	20	8.5	2.7	1	2	5.2	105	35	7.5	4.9	110	80	21	12	71
LELAND							STONEVILLE 213						100 PERCENT								
2	LM	51	34	1.13	45	4.4	79	22	7.4	5.3	3	2	7.1	104	32	6.9	4.8	100	70	25	21	61
SCOTT							DELTAPINE 16						100 PERCENT								
2	SLM	41	35	1.14	44	4.0	82	22	8.0	3.1	2	2	4.9	108	35	7.2	5.2	100	80	19	19	71
TRIBBETT							STONEVILLE 7A						100 PERCENT								
3	SLM	41	34	1.12	46	4.7	90	23	6.0	3.5	2	2	6.3	99	28	5.7	3.7	100	70	18	18	57

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTH CENTRAL AREA--(Continued)																					
MISSISSIPPI--(Continued																					
TUNICA							STONEVILLE 213						100 PERCENT								
2 SLM	41	35	1.08	46	5.0	84	22	6.8	3.0	2	3	6.0	91	26	6.1	4.3	110	80	16	15	51
MISSOURI																					
BELL CITY							STONEVILLE 213						100 PERCENT								
3 SLM	41	34	1.05	44	4.5	83	21	6.8	2.4	1	3	4.5	93	31	6.7	4.9	90	70	20	15	57
CAMPBELL							STONEVILLE 213						98 PERCENT								
3 SLM	41	34	1.10	45	4.3	79	21	7.5	2.5	1	2	5.1	101	32	6.9	4.8	110	90	24	19	60
STEELE							STONEVILLE 213						95 PERCENT								
2 SLM	41	34	1.07	45	4.7	79	23	7.2	3.4	1	3	5.5	98	29	6.3	4.3	100	90	24	13	53
TENNESSEE																					
MILLINGTON							REX SMOOTHLEAF						95 PERCENT								
2 SLM	41	34	1.08	46	4.2	80	22	7.6	4.1	2	3	5.4	95	29	6.4	4.4	110	90	15	14	59
SPRING CREEK							DIXIE KING II						90 PERCENT								
2 SLM	41	34	1.01	45	4.8	82	20	6.4	2.4	3	3	7.3	81	25	5.3	4.3	120	100	6	9	47
SOUTHWEST AREA																					
CENTRAL TEXAS																					
WHITNEY							TAMCOT SP37						100 PERCENT								
2 SGO	61 1/	32	1.01	40	3.1	81	22	6.6	5.9	5	3	9.3	87	26	6.1	4.3	80	60	57	46	43
NORTHWEST TEXAS																					
BROWNFIELD							DELTAPINE SR-1						70 PERCENT								
1 MID	31	30	.99	47	4.5	84	21	7.0	3.1	1	3	5.5	83	22	5.6	4.4	110	80	24	15	44
O'DONNELL							LOCKETT 4789						70 PERCENT								
1 MID LT SP	32	32	1.01	46	4.4	84	21	6.6	2.1	2	4	5.4	94	26	6.3	4.2	90	70	36	24	49
OKLAHOMA																					
WEBBERS FALLS							DELTAPINE 16						95 PERCENT								
1 SLM	41	36	1.17	46	4.8	80	24	7.6	2.8	2	3	5.3 2/	110	38	7.2	5.0	100	90	13	11	73

1/ Reduced from 51 because of bark
2/ Cotton stuck to processing roller

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten-tial
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
WEST	AREA																				
ARIZONA																					
BOWIE							STONEVILLE 213						97 PERCENT								
2 MID	31	34	1.03	44	4.1	82	20	6.7	2.7	0	3	5.8 1/	88	24	6.1	4.7	100	80	23	20	40
BUCKEYE							STONEVILLE 213						100 PERCENT								
1 MID LT SP	32	35	1.08	45	5.3	94	22	6.2	2.5	1	4	5.5 1/	94	28	5.4	4.5	100	90	20	13	46
CHANDLER							DELTAPINE 16						100 PERCENT								
2 MID	31	35	1.14	45	4.7	85	24	7.4	2.5	0	3	4.5	108	36	6.4	5.1	110	70	21	12	63
PARKER							DELTAPINE 16						100 PERCENT								
2 MID	31	35	1.10	45	4.8	88	23	7.1	2.0	1	3	4.5	102	30	6.1	4.2	100	90	17	12	56
STANFIELD							DELTAPINE 16						100 PERCENT								
2 MID	31	34	1.09	44	4.8	85	22	7.6	2.0	1	3	5.4	90	26	5.8	4.3	110	90	19	17	46
CALIFORNIA																					
BAKERSFIELD							ACALA SJ-1						100 PERCENT								
2 MID	31	35	1.11	48	4.9	96	29	5.7	2.3	1	3	6.2	124	43	6.2	4.5	120	90	9	8	74
BRAWLEY							DELTAPINE 16						100 PERCENT								
1 MID	31	34	1.07	44	4.9	88	25	6.5	2.0	1	3	6.1	95	26	5.8	3.9	100	70	23	20	48
BUTTONWILLOW							ACALA SJ-1						100 PERCENT								
2 MID	31	35	1.09	46	4.6	96	28	5.2	1.8	1	3	7.3	120	41	5.9	4.4	120	90	15	10	69
PIXLEY							ACALA SJ-1						100 PERCENT								
2 SLM	41	35	1.08	46	4.3	100	26	5.3	2.5	2	3	5.2	116	38	5.4	4.1	90	70	28	21	64
SHAFTER							ACALA SJ-1						100 PERCENT								
2 SLM	41	35	1.12	46	4.1	92	27	5.5	2.6	2	3	6.9	130	45	6.2	4.6	110	80	16	11	74
STRATFORD							ACALA SJ-1						100 PERCENT								
2 MID	31	35	1.12	46	4.4	97	26	6.4	2.0	1	3	4.7	118	40	5.8	4.3	100	80	21	14	72
WASCO							ACALA SJ-1						100 PERCENT								
1 MID	31	35	1.11	46	4.4	92	27	5.9	2.3	1	3	6.9	124	42	6.0	4.7	100	80	23	18	75
2 SLM	41	35	1.07	45	4.4	98	26	5.4	2.7	3	4	4.8	112	36	5.5	3.9	90	70	23	18	63
WEST TEXAS																					
PECOS							DELTAPINE 16						100 PERCENT *								
1 MID	31	34	1.08	44	4.3	76	22	8.4	1.9	0	3	5.8	103	33	7.7	5.4	130	90	8	10	66

1/ Cotton stuck to processing roller
* 100 percent selected for tests, less than 100 percent in the area

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph			Fiber Strength		Elon-gat'n	S.A. Non-Lint	Color Raw Stock		P & C and Comber Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.	Mike	Zero Gage	1/8" Gage	1/8"		Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHEAST		AREA																			
ALABAMA																					
GERALDINE							COKER 310						100 PERCENT								
2	LM	51 34	1.13	45	4.6	86	23	7.2	5.0	3	3	8.4	102	35	6.2	5.0	110	90	15	11	62
												* 15.6	118	40	6.9	5.0	120	100	7	5	
GEORGIA																					
COMER							COKER 310						100 PERCENT								
2	SLM LT SP	42 34	1.11	45	5.2	80	24	7.1	2.9	3	4	8.3	106	32	5.9	4.5	120	100	15	9	63
												* 15.6	121	40	6.4	4.7	130	100	5	5	
MADISON							COKER 310						100 PERCENT								
2	SLM LT SP	42 34	1.11	46	4.8	82	23	6.8	4.4	4	4	9.2	101	30	5.8	4.6	110	90	15	12	61
												* 16.7	116	39	6.5	4.9	130	100	10	8	
SOUTH CAROLINA																					
HARTSVILLE							COKER 310						100 PERCENT								
2	LM	51 1/ 35	1.15	45	4.6	82	24	6.8	5.3	3	2	9.8	104	35	6.1	4.7	110	90	28	23	70
												* 16.2	121	43	6.8	5.1	120	100	13	9	
SOUTH CENTRAL		AREA																			
MISSISSIPPI																					
MORGAN CITY							COKER 310						100 PERCENT								
3	LM	51 36	1.19	44	4.1	86	24	6.5	5.1	2	2	10.0	117	39	6.6	4.9	100	80	31	22	59
												* 16.8	136	46	6.8	4.9	120	90	14	10	
WEST		AREA																			
NEW MEXICO																					
ARTESIA							ACALA 1517-70						77 PERCENT								
2	MID	31 36	1.18	46	3.9	86	27	6.6	2.3	0	3	6.5	140	49	6.7	5.0	100	80	19	19	99
												* 13.8	154	57	7.3	5.5	110	90	12	10	
DEXTER							ACALA 1517-V						100 PERCENT 2/								
2	MID	31 36	1.17	45	3.8	92	27	6.4	2.4	1	3	6.7	131	44	6.9	4.7	100	80	20	14	97
												* 14.0	148	53	6.9	5.4	110	80	12	8	
LAS CRUCES							ACALA 1517-V						100 PERCENT 2/								
2	MID	31 36	1.16	44	3.4	92	27	5.9	2.0	1	3	7.6	130	46	6.3	4.8	100	70	23	19	90
												* 16.3	151	55	6.7	5.3	100	80	10	8	

* Comber waste and combed yarn data
1/ Reduced from 41 because of grass
2/ 100 percent selected for tests, less than 100 percent in the area

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C and Comber Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten-tial
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
WEST AREA--(Continued)																					
WEST TEXAS EL PASO							ACALA 1517-70							90 PERCENT							
2 SLM	41	36	1.17	46	3.7	90	27	6.3	2.8	1	2	8.1	139	47	7.1	5.0	100	70	18	12	96
											*	14.7	152	57	6.9	5.4	100	90	14	9	

* Comber Waste and Combed Yarn Data

Table 5--Cotton, American Pima extra long staple: Quality characteristics by production areas, crop of 1973

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Combed Yarns									
				Array Length		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Comber Waste	Strength		Elongation		Appearance Index		Imprfect'ns	
							Zero Gage	1/8" Gage			Gra	Yel			50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx
No	Grade Name & Code		Stple	UQL	CV																	
			32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No
WEST		AREA																				
WEST TEXAS								PIMA S-4						100 PERCENT								
1	EL PASO	4	44	1.47	31	4.1	100	34	7.8	3.3	5	5	7.2	17.8	65	35	5.6	4.9	130	120	1	2
								PIMA S-4						100 PERCENT								
1	EL PASO	3	44	1.44	34	3.9	99	33	8.0	1.9	4	5	6.6	17.6	67	37	5.5	4.8	120	130	1	2

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